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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 3							R-1 ITEM NOMENCLATURE Demining PE 0603120D8Z			
COST(In Millions)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total Program Element (PE) Cost	15.112	0	0	0	0	0	0	0	0.000	15.112
Demining/P547	15.112	0	0	0	0	0	0	0	0.000	15.112

(U) **A. Mission Description and Budget Item Justification**

(U) **BRIEF DESCRIPTION OF ELEMENT**

- (U) This humanitarian demining R&D program focuses on development, testing, and evaluation of equipment to reduce the time and costs associated with demining while improving operational safety of deminers. This program adapts commercial-off-the-shelf equipment and mature technologies to rapidly demonstrate and transition equipment for landmine detection, landmine clearance, protection of deminers, and mine awareness training to the international demining community. The program seeks to leverage past and current R&D project activity in related areas including tactical countermine, unexploded ordnance clearance, and foreign development programs. There are four areas of emphasis currently being addressed by this technology development program: equipment to locate mined and mine-free terrain; clearers specialized for demining agricultural areas and neutralization devices to destroy individual mines without moving them; tools for the deminer to enhance safety; and various media to facilitate mine awareness and deminer training. Humanitarian demining needs and sustainment issues originate with the regional Commanders-In-Chief during the annual demining action officers' workshop. These needs and issues are refined with data from the United Nations, international groups, Non-Government Organizations (NGOs), and contractors experienced in demining operations.

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<i>COST(In Millions)</i>	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total Program Element (PE) Cost	15.112	0	0	0	0	0	0	0	0.000	15.112
Demining/P547	15.108	0	0	0	0	0	0	0	0.000	15.112

(U) **Project Number and Title: P547 Demining**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY1998 Accomplishments:**

(U) Developed and successfully demonstrated mechanical clearers specialized for demining agricultural areas and QA of areas previously cleared. Developed and successfully demonstrated small remote controlled clearance devices that use commercial mowers for vegetation removal and flails for mine clearance. Initiated development of an improved mechanical flail to correct deficiencies identified from prior deployments. Developed and demonstrated various alternative technologies used for in-situ neutralization of landmines, some of which do not permit high order detonation. Initiated improvements for a hand held liquid explosive foam (LEXFOAM) application. Developed and successfully demonstrated improved Blast & Fragment Containers that contain fragments during mine detonation and a simple alternative power source used with various detection equipment to reduce the logistics burden caused by the constant requirement of batteries in the field. Developed and successfully demonstrated a wide area detection system capable of mine detection, mine/minefield mapping and recording and various mission planning operations. Continued the development of a hand held detection device that capitalizes on commercial mining equipment and is capable of mine detection and discrimination. Initiated improvements to the hand held detection devices and integrated mine marking devices. Initiated development and demonstration of commercially available explosive detection equipment for mine detection applications. Continued the development of individual tools used to enhance deminer safety and improve efficiency of the operation. Continued the development of various media to facilitate mine awareness and deminer training.(\$ 15.112 Million)

(U) **FY1999 Plans:**

(U) FY1998 concluded advanced technology development.
(\$ 0 Million)

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(U) B. <u>Program Change Summary</u>	<u>FY1998</u>	<u>FY1999</u>	<u>FY2000</u>	<u>FY2001</u>	<u>Total Cost</u>
Previous Presidents Budget	15.918	0	0	0	0.000
Appropriated Value	15.918	0	0	0	Continuing
Adjustments to Appropriated Value					
a. Congressionally Directed Undistributed Reduction	-.0806	0	0	0	
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment	0	0	0	0	
c. Other	0	0	0	0	
Current Presidents Budget	15.112	0	0	0	15.112

Change Summary Explanation: Funding changes are due to congressional undistributed reductions and inflation adjustments.

(U) **Funding:** : Funding for FY 1999 through FY 2005 was realigned to PE 0603920D8Z because the program is more properly classified as Demonstration and Validation.

(U) **Schedule:** N/A

(U) **Technical:** : Funding for FY 1999 through FY 2005 was realigned to PE 0603920D8Z because the program is more properly classified as Demonstration and Validation.

(U) **C. OTHER PROGRAM FUNDING SUMMARY COST:** N/A

(U) **D. ACQUISITION STRATEGY:** N/A

(U) **E. SCHEDULE PROFILE:** N/A

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